



Encuadernación	Tapa blanda
Páginas	148
Año	2018
Edición	1era edición
Autor	Rosalía Ameliana Pupella
Editorial	Springer
ISBN	9789811053405
Idioma	Inglés

DESCRIPCIÓN DEL PRODUCTO

This handbook covers the principles of mechanical ventilation, making them easy to understand and apply in clinical settings. Presented in an accessible style and supplemented by a wealth of illustrations and graphs, it includes chapters on the basic mathematics and physics of ventilation, respiratory anatomy, basic and advanced ventilation modes, and the fundamentals of acid-base balance. A closing chapter on troubleshooting for mechanical ventilation provides valuable tips on how to deal with various situations encountered in intensive care units.

The book is primarily intended for respiratory therapy practitioners, clinicians in pulmonary units, and pulmonologists, as well as graduate students in respiratory medicine and students pursuing undergraduate courses in respiratory therapy – all of whose work involves mechanical ventilators.

Índice Mechanical Ventilation in Patient with Respiratory Failure 1st edition

1 Basic Mathematics and Physics

1.1 Introduction

1.2 Data Tables and Graphs

1.3 Gas Law

- 1.4 Pressure
- 1.5 Flow
- 1.6 Various Inspiratory Flow Pattern
- 1.7 Expiratory Flow
- 1.8 Volume

2 Respiratory Anatomy

- 2.1 Introduction
- 2.2 Dead Space
- 2.3 Lung Compliance
- 2.4 Control System and Respiratory Anatomy
- 2.5 Spontaneous Inspiration and Expiration in Healthy Human
- 2.6 Inspiration and Expiration of Patient with Mechanical Ventilatory Support
- 2.7 Complete Expiration
- 2.8 Expiration in Mechanical Ventilation: PEEP and Base Flow
- 2.9 Incomplete Expiration: Air Trapping and Intrinsic PEEP
- 2.10 Needs of Patient on Mechanical Ventilatory Support

3 Mechanical Breath

- 3.1 Introduction
- 3.2 Various Types of Breath Delivery Based on Flow Control Target
- 3.3 A Breath Sequence (Initiation, Target, Cycling, and Expiratory Baseline)
- 3.4 Type of Breath Based on Breath Initiation Source

4 Basic Ventilation Modes

- 4.1 Introduction
- 4.2 Fully Controlled and Assist-Controlled Ventilation Modes
- 4.3 Synchronized Intermittent Mandatory Ventilation (SIMV) Mode
- 4.4 Pressure Support and Continuous Positive Airway Pressure (CPAP) Ventilation Modes

5 Overview of Acid-Base Balance, Oxygenation, Ventilation, and Perfusion

- 5.1 Introduction
- 5.2 Oxygenation
- 5.3 Ventilation
- 5.4 Perfusion and Ventilation/Perfusion Ratio

6 Advanced Ventilation Modes

- 6.1 Introduction
- 6.2 BiPAP and APRV and Their Weaning Process
- 6.3 Dual Control (Within Breath and Breath-to-Breath) Ventilation Modes
- 6.4 Minute Volume Guarantee and Adaptive Support Ventilation Mode

7 Advanced Ventilation Graph

7.1 Introduction

7.2 Graphical Loops of (Full/Assist) Controlled Breath and Spontaneous Breath

7.3 Graphical Loops in Airway Resistance and Lung Compliance Change

7.4 Leakage Indication and Upper/Lower Inflection Points on Graphical Loops

8 Troubleshooting

8.1 Introduction

8.2 Troubleshooting

Index

[Más de Anestesiología »](#)

[Más de Medicina intensiva »](#)

[Síguenos en Facebook »](#)